

CLAIMS:

1. Method of recording information on a record carrier of a writable type by writing marks in a track on a recording layer via a beam of radiation entering through an entrance face (47) of the record carrier, the record carrier comprising
- a first recording layer (40) and a second recording layer (41), the first recording layer being
- 5 present at a position closer to the entrance face than the second recording layer, the method comprising
- a power control step (OPC) for setting the writing power of the beam for the second recording layer which power control step comprises writing a test pattern of marks in a power control zone located on the second recording layer, and
- 10 - a upper layer recording step preceding the power control step, the upper layer recording step comprising writing marks in an upper area of the first recording layer, the upper area substantially covering a radial position range on the first recording layer corresponding to a radial position range of the power control zone on the second recording layer.
- 15 2. Method as claimed in claim 1, wherein on the record carrier the track on the first recording layer extends spirally in a first direction and the track on the second recording layer extends spirally in a second direction opposite to the first direction for constituting a two part recording area logically separated by an intermediate zone that physically is constituted by a first intermediate part located at the end of the first recording layer and a
- 20 second intermediate part located at the start of the second recording layer, the recording area being preceded by a lead-in zone located at the start of the first recording layer and being followed by lead-out zone located at the end of the second recording layer, the upper layer recording step comprising writing marks in the upper area in an outward direction from an inner radial position to an outer radial position, and
- 25 the power control step comprising writing the test pattern of marks in the power control zone in an inward direction from the outer radial position to the inner radial position.

3. Method as claimed in claim 2, wherein the upper layer recording step comprises writing marks constituting the lead-in zone, and/or the upper layer recording step comprises writing marks constituting the first intermediate part
- 5 4. Method as claimed in claim 1, wherein the upper layer recording step is performed once for writing marks in an upper area sufficiently large for covering a radial position range on the first recording layer corresponding to a radial position range of a large power control zone on the second recording layer that allows multiple times performing the power control step, in particular during multiple recording sessions.
- 10 5. Method as claimed in claim 1, wherein each recording layer on the record carrier comprises a pre-track pattern, and the method comprises the step of retrieving power control information encoded in the pre-track pattern indicating the location of a power control zone on the second recording layer.
- 15 6. Method as claimed in claim 1, wherein the record carrier is an optical disc and the upper layer recording step comprises writing marks at the radial position of the upper area on the first recording layer substantially between 22.6 mm and 24.0 mm radially, the power control zone on the second recording layer being located at corresponding radial positions, in particular between 22.7 mm and 23.9 mm radially.
- 20 7. Device for recording information on a record carrier of a writable type by writing marks in a track on a recording layer via a beam of radiation entering through an entrance face of the record carrier, the record carrier comprising
- 25 - a first recording layer (40) and a second recording layer (41), the first recording layer being present at a position closer to the entrance face than the second recording layer, the device comprising
- 30 - a head (22) for providing the beam, and
- a power control unit (20) for setting the writing power of the beam for the second recording layer by
- locating a power control zone on the second recording layer, and
- writing a test pattern of marks in the power control zone preceded by
- writing marks in an upper area of the first recording layer, the upper area substantially being located at a radial position corresponding to the radial position of the power control zone.

8. Device as claimed in claim 7, wherein at least one recording layer on the record carrier comprises a pre-track pattern, and the device comprises a demodulation unit (32) for retrieving power control information from the pre-track pattern, the power control information indicating the location of the power control zone.
9. Device as claimed in claim 7, wherein the power control unit (20) is arranged for writing marks in the upper area by performing an upper power control step for setting the writing power of the beam for the first recording layer which upper power control step comprises writing a test pattern of marks in a power control zone located on the first recording layer.
10. Record carrier of a writable type for recording information by writing marks in a track on a recording layer via a beam of radiation entering through an entrance face (47) of the record carrier, the record carrier comprising
- a first recording layer (40) and a second recording layer (41), the first recording layer being present at a position closer to the entrance face than the second recording layer, and
 - power control information (12) indicating the location of a power control zone (60) on the second recording layer for performing a power control procedure (OPC) for setting the writing power of the radiation beam for the second recording layer which power control procedure comprises
 - writing marks in an upper area of the first recording layer, the upper area substantially covering a radial position range on the first recording layer corresponding to a radial position range of the power control zone on the second recording layer, and
 - writing a test pattern of marks in the power control zone.
11. Record carrier as claimed in claim 10, wherein the track on the first recording layer extends spirally in a first direction and the track on the second recording layer extends spirally in a second direction opposite to the first direction for constituting a two part recording area (54,47) logically separated by an intermediate zone that physically is constituted by a first intermediate part (55) located at the end of the first recording layer and a second intermediate part (56) located at the start of the second recording layer, the recording area being preceded by a lead-in zone (53) located at the start of the first recording

layer and being followed by lead-out zone (58) located at the end of the second recording layer.

12. Record carrier as claimed in claim 10, wherein at least one recording layer
5 comprises a pre-track pattern (14), the power control information being encoded in the pre-track pattern.

13. Record carrier as claimed in claim 12, wherein the pre-track pattern comprises
a pregroove that exhibits a wobble constituted by displacements of the pregroove in a
10 direction transverse to the longitudinal direction of the track, the wobble exhibiting a wobble modulation for representing the power control information.